

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1.-16. (canceled)

17. (previously presented) Intervertebral disk implant according to claim 22, wherein the base plate and/or the cover plate can be implanted into a bone or fixed to the bone without cement.

18.-21. (canceled)

22. (currently amended) Intervertebral disk implant, comprising a base plate, a cover plate and an intervertebral disk, wherein the intervertebral disk is seated on the base plate in such a way that translational and rotational movements are possible and said cover plate is seated on the intervertebral disk in such a way that an articulating surface of the intervertebral disk as well as an articulating surface of the cover plate are each located on a respective spherical partial surface with the same radii, wherein the base plate and/or the cover plate and/or the intervertebral disk comprise titanium or titanium alloy, and the base plate and/or the cover plate and/or the intervertebral disk is coated with a ceramic coating and wherein the edges of the cover plate and of the base plate have a declination of the corners facing each other away from each other and in all of the possible movements the cover plate does not contact the base plate.

23.-25. (canceled)

26. (previously presented) Intervertebral disk implant according to claim 22, wherein the ceramic coating is titanium-niobium-nitride (Ti-Nb-N).

27.-28. (canceled)

29. (previously presented) A method of treating scoliosis, herniation of intervertebral disk, kyphosis, ruptured disk, black disc, spontaneous deformation, lumbago, deforming spondylosis, age-related hunchback (Witwenbuckel), spondylomyelitis, osteochondrosis, osteofibrosis, spina bifida, lordosis, spondylotosis, clay shoveller's fracture, myelomeningocele, brachialgia, Baastrup's syndrome, vertebral ankylosis, Scheuermann's disease, cervical syndrome, lumbar kyphosis, torticollis, or Bechterew's disease, comprising:

providing the intervertebral disk implant according to claim 22 to a patient in need thereof.

30. (canceled)

31. (previously presented) A method of treating scoliosis, herniation of intervertebral disk, kyphosis, ruptured disk, black disc, spontaneous deformation, lumbago, deforming spondylosis, age-related hunchback (Witwenbuckel), spondylomyelitis, osteochondrosis, osteofibrosis, spina bifida, lordosis, spondylotosis, clay shoveller's fracture, myelomeningocele, brachialgia, Baastrup's syndrome, vertebral ankylosis, Scheuermann's disease, cervical syndrome, lumbar kyphosis, torticollis, or Bechterew's disease, comprising:

providing the intervertebral disk implant according to claim 17 to a patient in need thereof.

32.-33. (canceled)

34. (previously presented) A method of treating scoliosis, herniation of intervertebral disk, kyphosis, ruptured disk, black disc, spontaneous deformation, lumbago, deforming spondylosis, age-related hunchback (Witwenbuckel), spondylomyelitis, osteochondrosis, osteofibrosis, spina bifida, lordosis, spondylotosis, clay shoveller's fracture, myelomeningocele, brachialgia, Baastrup's syndrome, vertebral ankylosis, Scheuermann's disease, cervical syndrome, lumbar kyphosis, torticollis, or Bechterew's disease, comprising:

providing the intervertebral disk implant according to claim 26 to a patient in need thereof.